



SBR/SKBPC35005 THRU SBR/SKBPC3510

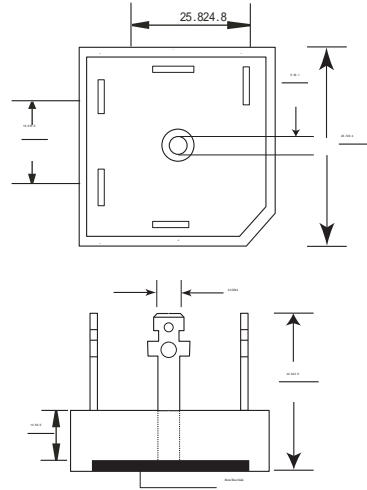
Voltage Range
-50 to 1000 Volts
Current
-35.0 Ampere

Features

- Diffused Junction
- Low forward voltage drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards

MECHANICAL DATA

Case:Epoxy Case with Heat Sink Internally
MIL-STD-202,Method 208
Polarity:As Marked on Body
Weight:20grams(approx)
Mounting Position
Bolt Down on Heatsink With Silicone Thermal Compound Between Bright and Mounting Surface for Maximum Heat Transfer Efficiency
Mounting Torque:20 in lbs.Max.
Marking:Type Number



Maximum Ratings and Electrical Characteristics

Rating at AC ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

VOLTAGE RATINGS

| CHARACTERISTICS | SYMBOL | -00 | -01 | -02 | -04 | -06 | -08 | -10 | -12 | -14 | -16 | UNT |
|--|---------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|
| Peak Repetitive Reverse Voltage Working Peak Reverse voltage DC Blocking Voltage | VRRM VR WM VR | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | V |
| Peak Non-Repetitive Reverse Voltage | VRSM | 75 | 150 | 275 | 500 | 725 | 900 | 1100 | 1300 | 1500 | 1700 | V |
| PMS Reverse Voltage | VR(RMS) | 35 | 70 | 140 | 280 | 420 | 560 | 700 | 840 | 980 | 1120 | V |

FOR WARD CONDUCTION

| CHARACTERISTICS | SYMBOL | MT35 | UNIT |
|---|--------|---------------------------|----------|
| Maximum Average Forward Rectified Current@Tc=100°C | IO | 35 | A |
| Non-Repetitive Peak Forward Surge Current (No voltage Reapplied t=8.3ms at 60Hz) (No voltage Reapplied t=10ms at 50Hz) (100% VRRM Reapplied t=8.3ms at 60Hz) (100% VRRM Reapplied t=10ms at 50Hz) | IFMS | 500 475 420 400 | A |
| I2t Rating for fusing (No voltage Reapplied t=8.3ms at 60Hz) (No voltage Reapplied t=10ms at 50Hz) (100% VRRM Reapplied t=8.3ms at 60Hz) (100% VRRM Reapplied t=10ms at 50Hz) | I2t | 1030 130 730 800 | A2S |
| Forward Voltage(per element) @TJ=25°C, @LFM=40APK per single junction | VF | 1.19 | V |
| Peak Reverse Current (per leg)@TJ=25°C At Rated DC Blocking Voltage @TJ=125°C | IR | 10 5.0 | uA mA |
| RMS Isolation Voltage from Case to Lead | Vlso | 2500 | V |

THERMAL CHARACTERISTICS

| | | | |
|--|-------|-------------|-----|
| Operating T.emperature Range | TJ | -40 to +150 | °C |
| Storage T.emperature Range | TSTG | -40 to +150 | °C |
| Thermal Resistance Junction to Case at DC Operatiom per Bridge | RQ JC | 1.16 | K/W |
| Thermal Resistance Case to Case to Heatsink Mounting Surface, Smooth, Flat and Greased | RQ CS | 0.2 | K/W |